

---

## RECOMMENDATIONS

---

1. The extent of bottomland forest flooding and value of this forest as a contributor of detritus and nutrients, and as a sink for nutrients and pollutants, should be determined. These fluvial forests should be examined to determine if different forest types exist on the different soils.
2. Establishment of an additional monitoring station that will reflect the contribution of pollutants from Horsepen Bayou is needed. Monthly sampling should be resumed for 2 to 3 years to establish an adequate baseline of information.
3. An investigation of toxicants in water and sediment samples should be conducted.
4. Investigations of the utilization of Mud Lake by commercial and recreational finfishes and shellfishes should be undertaken.
5. Investigations of the freshwater flora and fauna should be initiated, especially upstream of Bay Area Boulevard and into the lower reaches of Horsepen Bayou, Big Island Slough, and Spring Gully.
6. A 24-hour water quality survey should be conducted during the warm season to determine the extent of oxygen sag during hours of darkness.